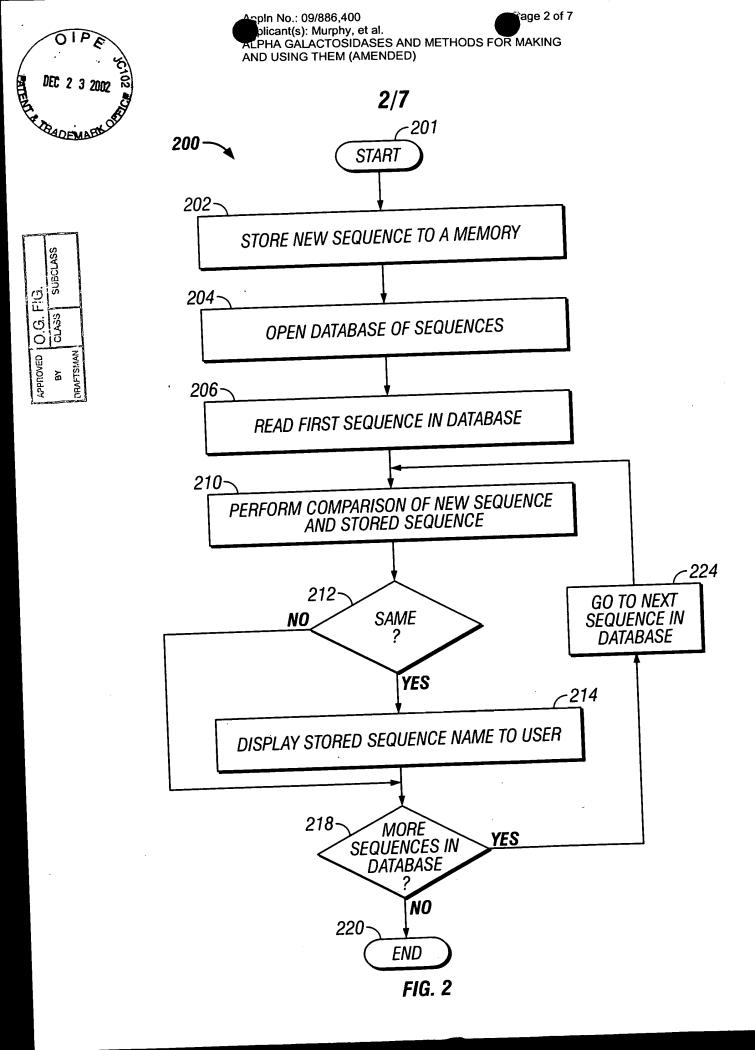


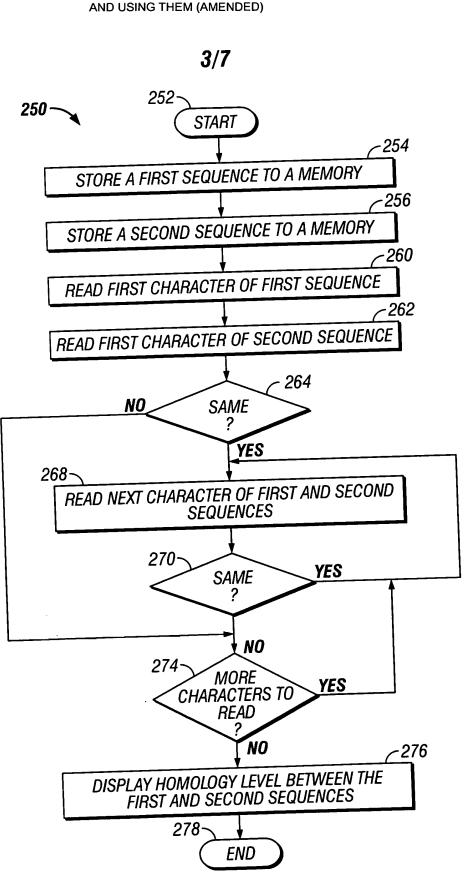
FIG. 1





THE RECEIVED

APPROVED O.G. FIG.



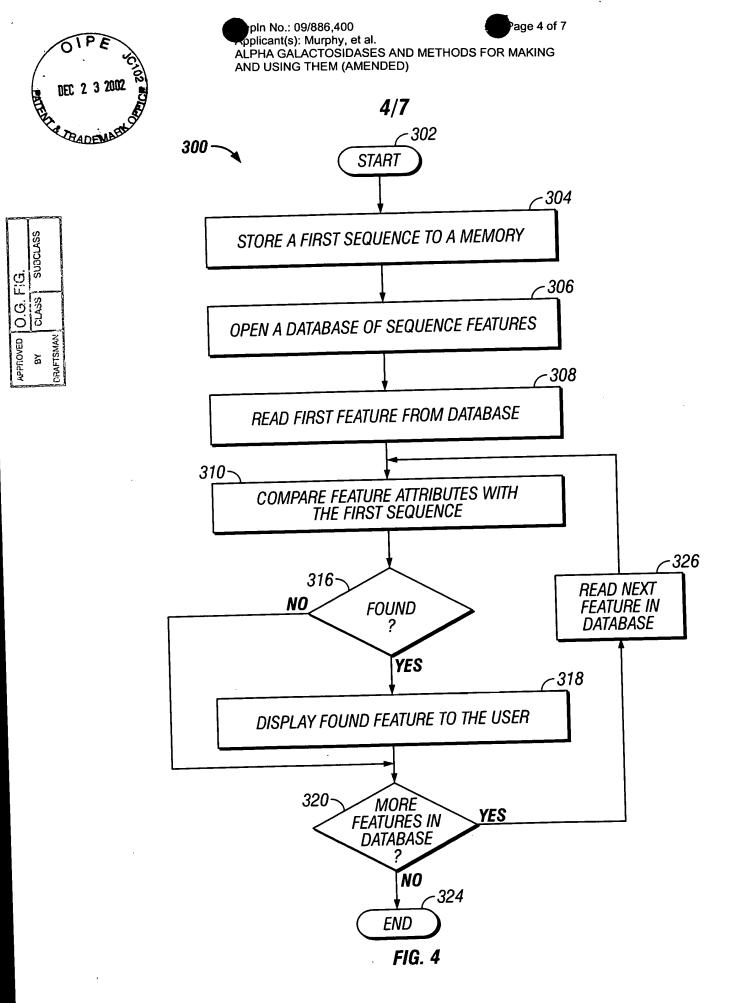
Appln No.: 09/886,400

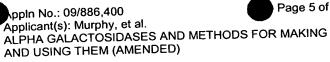
Applicant(s): Murphy, et al.

ALPHA GALACTOSIDASES AND METHODS FOR MAKING

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FIG. 3



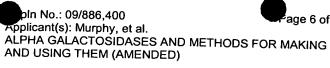




APPLIOVED O.G. FIG.
BY CLASS SUBCLASS

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48	96	144	192	240	288	336	384
TTT CAC GGC AAC CTC CAG TAT GCC GAA Phe His Gly Asn Leu Gln Tyr Ala Glu	AGC GAA ATC CCA AAG GTC ATA GAG AAG GCA TAC Ser Glu Ile Pro Lys Val Ile Glu Lys Ala Tyr	ACA CTG ATT AAA GAA GAA ATT CCT TTT GGG CTC AAC ATA Thr Leu Ile Lys Glu Glu Ile Pro Phe Gly Leu Asn Ile	35 ACC TTA AAG TTC CTC CCG AAG GAT ATT ATA GAC Thr Leu Lys Phe Leu Pro Lys Asp Ile Ile Asp	55 ATC GCG AGT GAC CTG ATA GAG ATA ATC GGA ACG Ile Ala Ser Asp Leu Ile Glu Ile Ile Gly Thr	ATA CTC CCC CTC CTG CCG CTT AGC AGA GTA GAA GCA CAA GTT ITE Leu Pro Leu Pro Leu Ser Arg Val Glu Ala Gln Val	85 GTT AAG GAA GAG CTC TTC GAG Val Lys Glu Glu Leu Phe Glu	100 TGG CTG CCA GAG CTC GCC TAT GAC CCG ATA ATC CCT GCC Trp Leu Pro Glu Leu Ala Tyr Asp Pro Ile Ile Pro Ala 115





APPROVED O.G. FIG.

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432	480	528	576	624	672	720	768
GAC AAC GGT TAT GAG TAT CTA TTC GCC GAC Asp Asn Gly Tyr Glu Tyr Leu Phe Ala Asp	130 TCA GCT CAT CTC AAC TCG GCG ATA AAG CCA ATT AAA CCG CTC Ser Ala His Leu Asn Ser Ala Ile Lys Pro Ile Lys Pro Leu	CAC CTT ATA AAG GCC CAA AGG GAA AAG CGC TTT AGG TAC ATC His Leu Ile Lys Ala Gln Arg Glu Lys Arg Phe Arg Tyr Ile	GGT CTC AGG GAG CTT AGG AAG GCG ATA AAG CTC GJy Leu Arg Glu Leu Arg Lys Ala Ile Lys Leu	185 GGT AAG GTA ACG CTA AAG GCA GTC AAA GAC ATC GAA GCC GTA Gly Lys Val Thr Leu Lys Ala Val Lys Asp Ile Glu Ala Val	TGG GTG GCC GTG AAC ACG GCT GTA ATG CTC GGC ATC Trp Val Ala Val Asn Thr Ala Val Met Leu Gly Ile	210 CTT ATG AAT CCT AAG AAA GTG GCG AGC TGG ATA GAG Leu Met Asn Pro Lys Lys Val Ala Ser Trp Ile Glu	CTT CTA TAC GGC ACC GAT ATA GAG TTC ATT GGC TAT AGG Leu Leu Tyr Gly Thr Asp Ile Glu Phe Ile Gly Tyr Arg 245

## **7/7**

816	864	912	096	1008	1056	1095
GGC TAC AGA ATG AGT GTT GAG GGA TTA TTA GAG GTT ATA GAC Gly Tyr Arg Met Ser Val Glu Gly Leu Leu Glu Val Ile Asp 265	AAC TCG GAA CTG TGC CTT CCC TCA GAG CTG AAG CAC AGT GGA Asn Ser Glu Leu Cys Leu Pro Ser Glu Leu Lys His Ser Gly 275	CTC TAC TTA CGG ACT TCG AGT TGG GCA CCA GAT AAG AGC TTG Leu Tyr Leu Arg Thr Ser Ser Trp Ala Pro Asp Lys Ser Leu	AGA GAG GAC GAA GGG AAC GCA AGA CTT AAT ATG CTG TCC Arg Glu Asp Glu Gly Asn Ala Arg Leu Asn Met Leu Ser 315	ATG AGG GGC GAA CTC GCC TTT TTA GCC GAG AAC AGC GAT GCA Met Arg Gly Glu Leu Ala Phe Leu Ala Glu Asn Ser Asp Ala	TGG GAG CCC CTC CCT GAG AGG AGG CTG GAT GCC TTC CGG GCG Trp Glu Pro Leu Pro Glu Arg Arg Leu Asp Ala Phe Arg Ala	AAC GAT TGG AGG GGT GAA AAT GGG GAA CCT TAG Asn Asp Trp Arg Gly Glu Asn Gly Glu Pro END 355
ATT Ile	GAG G1u	AGG Arg	AGG Arg	TAC	AGG Arg	ATA I1e